Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2713	(mold or (mold adj resin) or encapsula$5 or resin or shield$4 or seal$4) with (hole or fill$4 or opening or vent or groov$4 or passag$4 or trench or via) and ((cap or top or cover) near3 metal$4) and ("MEMS")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:53
L2	376	1 and hermetical$3	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:52
L4	12	2 and temperature and (metal$3 near2 (cap or top or lid or cover)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:56
L5	329	2 and (gas or liquid or air or water)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:59
L6	317	5 not 4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:57
L7	13	6 and ("MEMS").ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 18:03
L8	18	(6 not 7) and ("MEMS").clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 18:07
S1	55	chen-chien-hua.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S2	31	haluzak-charles-c.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S3	0	michael-donald.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S4	83	chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S5	3302	(packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB,	OR	ON	2005/01/06 18:14
S6	3302	((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14
S7	336	(((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	(US-20020185718-$).did. or (US-4323914-$ or US-4965660-$ or US-5198889-$ or US-5723904-$ or US-5919329-$ or US-6038136-$ or US-6338985-$ or US-6369449-$ or US-6388340-$ or US-6656770-$ or US-6737750-$ or US-6772512-$).did.	US-PGPUB; USPAT	OR	ON	2005/04/26 15:42
L2	28	("4143456" | "4915607" | "5019673" | "5120678" | "5169056" | "5203076" | "5218234" | "5239198" | "5248710" | "5273938" | "5292688" | "5302850" | "5311059" | "5371404" | "5385869" | "5420752" | "5450283" | "5521435" | "5623006" | "5656857" | "5663106" | "5705858" | "5814883" | "5859470" | "5886409" | "5973930" | "6018188" | "6038136").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/04/26 15:50
L3	4360	(mold or (mold adj resin) or encapsula$5 or resin or shield$4 or seal$4) with (hole or fill$4 or opening or vent or groov$4 or passag$4 or trench) and ((cap or top or cover) near3 metal$4) and ("MEM" or memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:11
L4	510	3 and hermetical$4	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 15:54
L5	216	4 and (chip or die or "IC") and temperature	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 15:55
L6	61	5 and (curing)	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 16:44
L7	21	(6 not 1) and ("MEM" or "MEMS")	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:03
L8	40	6 not 7	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:07
L9	11	(5 not 6) and ((mold or (mold adj resin) or encapsula$5 or resin or shield$4 or seal$4) with (hole or fill$4 or opening or vent or groov$4 or passag$4 or trench)).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	ON	2005/04/26 17:12
S1	55	chen-chien-hua.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S2	31	haluzak-charles-c.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S3	0	michael-donald.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S4	83	chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:13
S5	3302	(packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14

S6	3302	((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14
S7	336	(((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14
S8	2	((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:14
S9	85	((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:17
S10	13	(chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:17
S11	16	("20010021570"|"20020179921"|"20020185737"|"20030010808"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|"6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814"|"6635509").PN.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:17
S12	2	((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:17
S13	6	((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:17
S14	8	("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059").PN.	USPAT	OR	ON	2005/01/06 18:17
S15	12	"5723904".URPN.	USPAT	OR	ON	2005/01/06 18:17

| S16 | 248 | (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"200300010808"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|"6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814"|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059").PN.) "5723904".URPN.) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:36 |

| S17 | 198 | (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"\|"20020179921"\|"20020185737"\|"20030010808"\|"20030188881"\|"5578869"\|"5596486"\|"6194789"\|"6232150"\|"6400009"\|"6436853"\|"6441481"\|"6481570"\|"6611098"\|"6627814"\|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" \| "5045922" \| "5067007" \| "5081067" \| "5166773" \| "5237204" \| "5306948" \| "5311059"). PN.) "5723904".URPN.)) and (liquid or gas or water) | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:18 |

S18	85	(((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"2003001080 8"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|" 6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814 "|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059"). PN.) "5723904".URPN.)) and (liquid or gas or water)) and (coolant or cool$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/06 18:34
S19	11	("2881370" | "4561011" | "4612601" | "4620215" | "4770242" | "4914551" | "4926242" | "4964458" | "4965660" | "5003429" | "5055914").PN.	USPAT	OR	ON	2005/01/06 18:27
S20	41	"5455457".URPN.	USPAT	OR	ON	2005/01/06 18:30

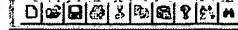| S21 | 33519 | ((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua. in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"2003001080 8"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|" 6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814 "|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059"). PN.) "5723904".URPN. (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua. in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"2003001080 8"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|" 6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814 "|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:36 |

| | | ((chip or die or "IC") and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not | | | | |

| S22 | 535 | (((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"\|"20020179921"\|"20020185737"\|"2003001080 8"\|"20030188881"\|"5578869"\|"5596486"\|"6194789"\|"6232150"\|" 6400009"\|"6436853"\|"6441481"\|"6481570"\|"6611098"\|"6627814 "\|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" \| "5045922" \| "5067007" \| "5081067" \| "5166773" \| "5237204" \| "5306948" \| "5311059"). PN.) "5723904".URPN. (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua. in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"\|"20020179921"\|"20020185737"\|"2003001080 8"\|"20030188881"\|"5578869"\|"5596486"\|"6194789"\|"6232150"\|" 6400009"\|"6436853"\|"6441481"\|"6481570"\|"6611098"\|"6627814 "\|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:38 |

... chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not

| S23 | 417 | ((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"20030010808"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|"6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814"|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059").PN.) "5723904".URPN. ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"20030010808"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|"6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814"|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:39 |

(("MEMS" or memory or device) and (hermetical$3)) not
(((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and
(chip or die or "IC") and (metal$4 with (cap or button))) not

| S24 | 73 | (((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"2003001080 8"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|" 6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814 "|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) and substrate and (metal$4 with lid)) (("4751482" | "5045922" | "5067007" | "5081067" | "5166773" | "5237204" | "5306948" | "5311059"). PN.) "5723904".URPN. (((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) not (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port))) and (fill$4 near2 (port or groov$3 or hole or trench or open$3))) (chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill adj port)) ((chen-chien-hua. in. haluzak-charles-c.in. michael-donald.in.) and (packag$4 or shield$4 or hous$4) and (seal$4 or epoxy)) (("20010021570"|"20020179921"|"20020185737"|"2003001080 8"|"20030188881"|"5578869"|"5596486"|"6194789"|"6232150"|" 6400009"|"6436853"|"6441481"|"6481570"|"6611098"|"6627814 "|"6635509").PN.) (((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or button))) not ((chen-chien-hua.in. haluzak-charles-c.in. michael-donald.in.) chen-chien-hua.in.)) and (fill$4) and ("MEMS" or memory or device) and (hermetical$3)) and (fill$3 adj port)) ((((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and (chip or die or "IC") and (metal$4 with (cap or | US-PGPUB; USPAT; EPO; JPO; IBM_TDB | OR | ON | 2005/01/06 18:50 |

michael-donald.in.) chen-chien-hua.in.) and (fill$4) and
("MEMS" or memory or device) and (hermetical$3)) not
(((((packag$4 or shield$4 or hous$4) and (seal$4 or epoxy) and

S25	4	(("6442033") or ("6166937") or ("5198889") or ("20020185718")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB	OR	OFF	2005/01/06 18:50
S26	16	("3586101" | "3942586" | "4027728" | "4103737" | "4145708" | "4882654" | "4884169" | "4910642" | "4928207" | "4949164" | "4966226" | "4996589" | "5019880" | "5023695" | "5046552" | "5077601").PN.	USPAT	OR	ON	2005/01/06 18:53
S27	33640	(chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:25
S28	1898	((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:38
S29	753	(((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:37
S30	489	((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:37
S31	341	(((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:38
S32	37	((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 near2 (port or groove or hole or trench)).clm.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:39
S33	183	((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 adj (port or groove or hole or trench))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:39
S34	18	((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 adj (port or groove or hole or trench)).clm.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:42
S35	19	(((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 near2 (port or groove or hole or trench)).clm.) not (((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 adj (port or groove or hole or trench)).clm.)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:44

S36	159	(((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 adj (port or groove or hole or trench))) not (((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 near2 (port or groove or hole or trench)). clm.)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:44
S37	25	(((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 adj (port or groove or hole or trench))) not (((((((chip or die or "IC") and (package or hous$4 or shield$4) and (coolant or cool$4) and (liquid or gas or water) and (lid or top or cap or button)) and (fill$4 near2 (port or groove or hole or trench))) and (media or medium)) and (cave or vacuum)) and substrate and (shield$3 or seal$4)) and (fill$4 near2 (port or groove or hole or trench)). clm.)) and ((heat or thermal$4) adj (spread$4 or dissipati$4))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 10:45
S38	5	("3953566" | "4482516" | "4705762" | "4985296" | "5545473"). PN.	USPAT	OR	ON	2005/01/07 11:10
S39	25	"5919329".URPN.	USPAT	OR	ON	2005/01/07 11:10
S40	10	("4890383" | "6107689" | "5700981" | "5729437" | "5776798" | "5919329" | "5973263" | "5981314" | "6038136" | "6150193"). PN.	USPAT	OR	ON	2005/01/07 11:17
S41	23	("4143456" | "4770899" | "4859722" | "5203076" | "5218234" | "5249101" | "5323947" | "5380560" | "5385869" | "5535101" | "5557150" | "5581122" | "5619070" | "5641996" | "5700723" | "5708304" | "5710071" | "5731231" | "5767446" | "5814882" | "5827999" | "5841192" | "5892290").PN.	USPAT	OR	ON	2005/01/07 11:18
S42	15	"6038136".URPN.	USPAT	OR	ON	2005/01/07 11:21
S43	28	("4143456" | "4915607" | "5019673" | "5120678" | "5169056" | "5203076" | "5218234" | "5239198" | "5248710" | "5273938" | "5292688" | "5302850" | "5311059" | "5371404" | "5385869" | "5420752" | "5450283" | "5521435" | "5623006" | "5656857" | "5663106" | "5705858" | "5814883" | "5859470" | "5886409" | "5973930" | "6018188" | "6038136").PN.	USPAT	OR	ON	2005/01/07 11:24
S44	4	"6369449".URPN.	USPAT	OR	ON	2005/01/07 11:26
S45	30	("4323914" | "4953005" | "5191404" | "5289337" | "5383269" | "5399898" | "5475262" | "5583321" | "5591959" | "5600541" | "5604377" | "5608262" | "5661339" | "5760478" | "5869896" | "5963429" | "6008536" | "6011696" | "6084308" | "6104084" | "6133064" | "6133626" | "6140144" | "6229215" | "6239484" | "6265771" | "6291267" | "6369449" | "6424033" | "6461895"). PN.	USPAT	OR	ON	2005/01/07 11:29
S46	1	"4092697".PN.	USPAT	OR	ON	2005/01/07 11:31
S47	102	"4323914".URPN.	USPAT	OR	ON	2005/01/07 11:32
S48	13	"6338985".URPN.	USPAT	OR	ON	2005/01/07 11:33
S49	15	"6038136".URPN.	USPAT	OR	ON	2005/01/07 11:35
S50	13	"6338985".URPN.	USPAT	OR	ON	2005/01/07 11:36
S51	19	("3953566" | "4360562" | "4482516" | "4705762" | "4915981" | "4963697" | "4985296" | "4992318" | "5108843" | "5294477" | "5545473" | "5571608" | "5778523" | "5868887" | "5919329" | "5970319" | "5983974" | "5988488" | "6015722").PN.	USPAT	OR	ON	2005/01/07 11:38
S52	2	"6504242"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2005/01/07 11:46
S53	0	"6773963".URPN.	USPAT	OR	ON	2005/01/07 11:51
S54	0	"6773963".URPN.	USPAT	OR	ON	2005/01/07 11:51
S55	9	("4708849" | "4817854" | "5223741" | "5829516" | "5913108" | "6281573" | "6344686" | "6504242" | "6607942").PN.	USPAT	OR	ON	2005/01/07 11:51

Drafts
Pending
Active
- L1: (2713) (mold or (mold adj resin) or encapsula$5 or resin
- L2: (376) 1 and hermetical$3
- L5: (329) 2 and (gas or liquid or air or water)
- L4: (12) 2 and temperature and (metal$3 near2 (cap or top or
- L6: (317) 5 not 4
- L7: (13) 6 and ("MEMS").ti.
- L8: (18) (6 not 7) and ("MEMS").clm.
Failed
- 6 and (cur$4 or seal$4 or epoxy or resin)
Saved
- S1: (55) chen-chien-hua.in.
- S2: (31) haluzak-charles-c.in.
- S3: (0) michael-donald.in.
- S4: (83) chen-chien-hua.in. haluzak-charles-c.in. michael-don
- S5: (3302) (packag$4 or shield$4 or hous$4) and (seal$4 or ep
- S6: (3302) ((packag$4 or shield$4 or hous$4) and (seal$4 or e
- S7: (336) (((packag$4 or shield$4 or hous$4) and (seal$4 or e
- S8: (2) ((((packag$4 or shield$4 or hous$4) and (seal$4 or ep
- S9: (85) (((((packag$4 or shield$4 or hous$4) and (seal$4 or
- S10: (13) (chen-chien-hua.in. haluzak-charles-c.in. michael-d

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2					US 20050067688 A1	20050331	72	Structure and method of making capped chips including vertical interconnects having stud bumps engaged to surfaces of said caps	257/704	257/778; 257/779;
3					US 20050055014 A1	20050310	27	Methods for accelerated release of material from a reservoir device	604/890.1	
4					US 20040121486 A1	20040624	23	Controlled release device and method using electrothermal ablation	436/174	604/890.1
5					US 20040108588 A1	20040610	24	Package for microchips	257/704	257/E23.193
6					US 20040076366 A1	20040422	35	Fiber-attached optical devices with in-plane micromachined mirrors	385/18	385/140
7					US 20040037535 A1	20040226	8	Hermetic seal for optical waveguide ribbon feed through	385/138	
8					US 20020179986 A1	20021205	12	MEMS wafer level package	257/417	257/E23.193
9					US 6763173 B2	20040713	8	Hermetic seal for optical waveguide ribbon feed through	385/138	
10					US 6571638 B2	20030603	11	Surface-acoustic-wave pressure sensor and associated methods	73/702	
11					US 6452238 B1	20020917	11	MEMS wafer level package	257/415	257/414; 257/532;

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